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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,461	06/25/2003	Timothy Henson	IR-2294 (2-3509)	3230	
7	590 05/10/2005	EXAMINER			
OSTROLENK, FABER, GERB & SOFFEN, LLP Attorneys at Law 1180 Avenue of the Americas New York, NY 10036-8403			LANDAU, MATTHEW C		
			ART UNIT	PAPER NUMBER	
			2815		
			DATE MAILED: 05/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental Notice of Allowability

Application No.	Applicant(s)	
10/603,461	HENSON, TIMOTHY	1 (Din)
Examiner	Art Unit	
Matthew Landau	2815	

Notice of Allowability	Examiner	Art Unit	
	Matthew Landau	2815	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. 🔀 This communication is responsive to the amendment filed	November 17, 2004.		•
2. X The allowed claim(s) is/are <u>1,4-10 and 12-20</u> .			
3. \boxtimes The drawings filed on <u>17 November 2004</u> are accepted by	the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the content of the content sheet is should be labeled as such in the case of the content sheet is should be labeled as such in the case of the content sheet is should be labeled as such in the case of the content sheet is should be labeled as such in the case of the content sheet is should be labeled as such in the case of the case of the content sheet is should be labeled as such in the case of t	been received. been received in Application No cuments have been received in this is of this communication to file a reply of this application. itted. Note the attached EXAMINER' be reason(s) why the oath or declarate to be submitted. on's Patent Drawing Review (PTO-6) a Amendment / Comment or in the October 184(c)) should be written on the drawing he header according to 37 CFR 1.121(c)	national stage applicational stage applicational stage application of the front (not the fig.).	quirements IOTICE OF
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			vote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Page 1. Notice of Informal Page 1. Notice of Informal Page 1. Notice Summary Paper Notification Page 1. Notice 1.	(PTO-413), e nent/Comment	·

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kourosh Salehi (Reg. #43,898) on February 11, 2005.

Please amend the claim(s) as follows:

- 10. (Currently Amended) A MOSgated semiconductor device comprising:
- a semiconductor die having an epitaxial layer of a first conductivity type formed over a substrate;
 - a channel region of a second conductivity type formed in said epitaxial layer,
 - a plurality of spaced trenches formed in said epitaxial layer;
- a first region of a first conductivity type formed at the bottom of each trench, each said first region of said first conductivity type being adjacent to said epitaxial layer and of a higher conductivity than said epitaxial layer;
- a plurality of source regions of said first conductivity type each disposed adjacent a trench;
- a source contact formed over said epitaxial layer and in ohmic contact with said plurality of source regions; wherein a conductivity of said first regions of said first conductivity type and a

conductivity of said field relief regions are substantially equal [[being selected to create a superjunction in said device]].

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12. (Currently Amended) A device according to claim 10[[claim 11]], wherein said field relief regions are spaced from said channel region.

Allowable Subject Matter

Claims 1, 4-10, and 12-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art of record, either singularly or in combination, does not disclose or suggest the combination of limitations including wherein said field relief regions are spaced from said channel region.

Regarding claim 10, the prior art of record, either singularly or in combination, does not disclose or suggest the combination of limitations including wherein a conductivity of said first regions of said first conductivity type and a conductivity of said field relief regions are substantially equal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/603,461

Art Unit: 2815

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew C. Landau whose telephone number is (571) 272-1731.

The examiner can normally be reached from 8:30 AM - 5:30 PM. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached

on (571) 272-1664. The fax phone numbers for the organization where this application or

proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for

After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

CAMOHT MOT

SUPERVISORY PATENT EXAMINER

Matthew C. Landau

Examiner

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May 3, 2005